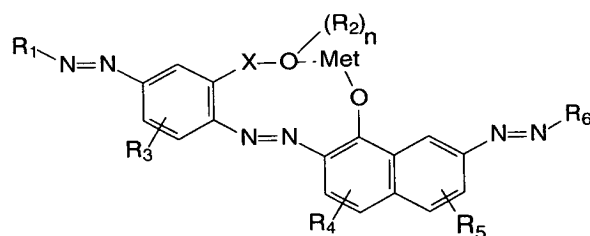


WHAT IS CLAIMED IS:

1. An ink jet ink set comprising:

- A) a cyan ink comprising a carrier and a sulfonated copper phthalocyanine dye;
- B) a magenta ink comprising a carrier and an anthrapyridone magenta dye or metal complex magenta dye, or azo-naphthol derivative magenta dye or mixture thereof;
- C) a yellow ink comprising a carrier and an azo-aniline yellow dye or metal complex yellow dye or mixtures thereof; and
- D) a trisazo black dye of the following structure



where Met is a metal atom, preferably Al, Co, Cr, Cu, Fe, or Ni;

R_1 is a phenyl or naphthalene radical substituted by 1, 2 or 3 substituents selected from the group consisting of OH, O(C1-C6)-alkyl, COOM, SO_3M and NH_2 ;

R_2 is C1-C6-alkyl, n is 0 or 1, X is a chemical bond or $-CO-$ or $-SO_2-$;

R_3 is H, methyl or O(C1-C6)-alkyl;

R_4 and R_5 are each H, COOM or SO_3M ;

R_6 is a phenyl, pyridyl or pyrazole radical substituted by 1,2 or 3 substituents selected from the group consisting of OH, O(C1-C6)-alkyl, COOM, SO_3M , NH_2 , NHaryl, NHacyl and phenylsulfo; and

M is ammonium, H, K, Li, or Na.

2. An ink jet ink set according to claim 1 wherein the dye is present in the ink in a concentration of 0.1% to 15% by weight of the ink composition.

3. An ink jet ink set according to claim 1 wherein the cyan ink comprises a carrier and C. I. Direct Blue 86, C. I. Direct Blue 199, or C. I. Direct Blue 307 or mixtures thereof.

4. An ink jet ink set according to claim 1 wherein the magenta ink comprises a carrier and Kodak Lightfast Magenta 1 (CAS # 251959-65-6), C. I. Reactive Red 23, pacified C. I. Reactive Red 23, C. I. Reactive Red 31, pacified Reactive Red 31 or CAS # 182061-89-8, Nippon Kayaku JPD EK-1 (CAS# 224628-70-0), Acid Red 80, Acid Red 82, or CAS# 212080-60-9 or mixtures thereof.

5. An ink jet ink set according to claim 1 wherein the magenta ink comprises a carrier and C.I. Direct Yellow 86, C.I. Direct Yellow 107, C. I. Direct Yellow 132, or C. I. Direct Yellow 173 and the yellow metal complex yellow dye is C.I. Acid Yellow 99 or C. I. Acid Yellow 114 or mixtures thereof.

6. An ink jet ink set according to claim 1 wherein the ink set further comprises a light cyan ink and a light magenta ink.

7. An ink jet ink set according to claim 6 wherein the light cyan ink comprises a carrier and a sulfonated copper phthalocyanine dye.

8. An ink jet ink set according to claim 7 wherein the light cyan ink comprises a carrier and C. I. Direct Blue 86, C. I. Direct Blue 199, or C. I. Direct Blue 307 or mixtures thereof.

9. An ink jet ink set according to claim 6 wherein the light magenta ink comprises a carrier and an anthrapyridone magenta dye or metal complex magenta dye or azo-naphthol derivative magenta dye or mixture thereof mixture thereof.

10. An ink jet ink set according to claim 9 wherein the light magenta ink comprises a carrier and Kodak Lightfast Magenta 1 (CAS # 251959-65-6), C. I. Reactive Red 23, pacified C. I. Reactive Red 23, C. I. Reactive Red 31, pacified C. I. Reactive Red 31, CAS #182061-89-8, Acid Red 80, Acid Red 82, Nippon Kayaku JPD EK-1 (CAS# 224628-70-0) or CAS# 212080-60-9 or mixtures thereof.

11. An ink jet ink set according to claim 6 wherein the ink set further comprises a light yellow ink.

12. An ink jet ink set according to claim 11 wherein the light yellow ink comprises a carrier and an azoaniline yellow dye or metal complex yellow dye or mixtures thereof.

13. An ink jet ink set according to claim 12 wherein the light yellow ink comprises a carrier and C.I. Direct Yellow 86, C.I. Direct Yellow 107, C. I. Direct Yellow 132, or C. I. Direct Yellow 173 and the yellow metal complex yellow dye is C.I. Acid Yellow 99 or C. I. Acid Yellow 114 or mixtures thereof.

14. An ink jet ink set according to claim 11 wherein the ink set further comprises a light black (gray) ink comprising a carrier and a trisazo metal complex black dye, a carbon black pigment, a self-dispersing carbon black pigment or mixtures thereof.

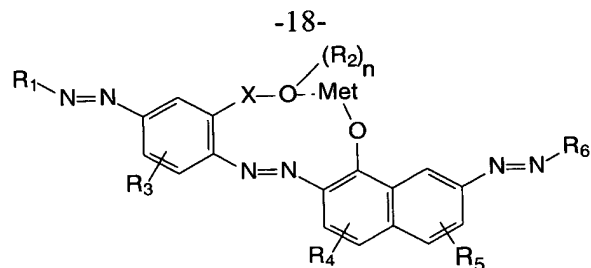
15. An ink jet ink set according to claim 1 wherein the carrier comprises water and water soluble organic solvents, humectants or a combination thereof.

16. An ink jet ink set according to claim 14 wherein the organic solvent and humectants are selected from glycerol, diethylene glycol, diethylene glycol mono-butyl ether, triethylene glycol mono-butyl ether, 2-pyrrolidinone, urea and mixtures thereof.

17. An ink jet ink set according to claim 15 wherein the concentration of organic solvents, and humectants is 5% to 50% by weight and water is 50% to 95% by weight.

18. An ink jet ink set according to claim 16 wherein the carrier further comprises a non-ionic surfactant.

19. An ink jet printing method, comprising the steps of:
- A) providing an ink jet printer that is responsive to digital data signals;
 - B) loading said printer with an ink jet recording element comprising a support having thereon an image-receiving layer;
 - C) loading said printer with an ink jet ink set comprising:
 - a) a cyan ink comprising a carrier and a sulfonated copper phthalocyanine dye;
 - b) a magenta ink comprising a carrier and an anthrapyridone magenta dye or metal complex magenta dye, or azo-naphthol derivative magenta dye or mixture thereof;
 - c) a yellow ink comprising a carrier and an azo-aniline yellow dye or metal complex yellow dye or mixtures thereof; and
 - d) a trisazo black dye of the following structure



where Met is a metal atom, preferably Al, Co, Cr, Cu, Fe, or Ni;

R₁ is a phenyl or naphthalene radical substituted by 1, 2 or 3 substituents selected from the group consisting of OH, O(C1-C6)-alkyl, COOM, SO₃M and NH₂;

R₂ is C1-C6-alkyl, n is 0 or 1, X is a chemical bond or -CO- or -SO₂- ;

R₃ is H, methyl or O(C1-C6)-alkyl;

R₄ and R₅ are each H, COOM or SO₃M;

R₆ is a phenyl, pyridyl or pyrazole radical substituted by 1,2 or 3 substituents selected from the group consisting of OH, O(C1-C6)-alkyl, COOM, SO₃M, NH₂, NHaryl, NHacyl and phenylsulfo; and

M is ammonium, H, K, Li, or Na; and

D) printing on said image-receiving layer using said ink jet ink set in response to said digital data signals.